

AY2021-22 ASEC CGPA Computation

BEng (Aerospace Engineering) and BSocSci (Economics) (wef AY2021/2022)

List of Courses that Contributes to BEng (Aerospace Engineering)				AU Load	
Discipline Requirement	Core	MH1810	Mathematics 1	3	85AU
		PH1011	Physics*	3	
		EG1001	Engineers in Society	2	
		MA2001	Mechanics of Materials	3	
		MH1811	Mathematics II	3	
		MA1001	Dynamics	3	
		MA1008	Introduction to Computational Thinking	3	
		MA1700	Aerospace Discovery Course	1	
		MA2003	Introduction to Thermo-fluids	3	
		MA2007	Thermodynamics	3	
		MA2005	Engineering Graphics	3	
		MA2006	Engineering Mathematics	3	
		MA2072	Laboratory Experiments (AE)	1	
		MA2701	Flight Performance	2	
		MA3700	Aircraft Structures I	3	
		MA3701	Aerodynamics	3	
		MA2700	Aerospace Materials & Manufacturing Process	3	
		MA2079	Engineering Innovation and Design	2	
		MA3006	Fluid Mechanics	3	
		MA3705	Aerospace Control Theory	3	
		MA3003	Heat Transfer	3	
		MA3072	Engineering Experiments (AE)	1	
		MA3702	Aircraft Propulsion	3	
		MA3703	Flight Dynamics	2	
		MA3704	Aircraft Electrical Devices	3	
		MA4702	Aircraft Structures II	3	
		MA4705	Aircraft Navigation and Flight Computers	3	
		MA4079	Final Year Project	8	
		MA4701	Aircraft Design	3	
		MA4704	Aeroelasticity	3	

	BDE	HE1001 HE1002 HE2001 HE2002 HE2003 HEXXXX	Microeconomics I Macroeconomics I Microeconomics II Macroeconomics II Econometrics I Economics PE	3 3 3 3 3 3	<u>18AU</u> 15AU from compulsory Year 1 and 2 Economics Core courses. Remaining 3AU from Year 3 and 4 Economics PE that yield the highest CGPA. + 5AU (PA only)
Interdisciplinary Collaborative Core	Common Core	CC0001 CC0002 CC0003 CC0005 CC0006 CC0007 ML0004	Inquiry and Communication in the Interdisciplinary World Navigating the Digital World Ethics & Civics in a Multi-Cultural World Healthy Living & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career and Entrepreneurial Development for the Future World	2 2 2 3 3 3 2	17AU
	Foundational Core	HW0288 MA0218 MA3080/ MA3075	Engineering Communication Introduction to Data Science and Artificial Intelligence Professional Internship/ Professional Attachment	2 3 10/ 5	15AU or 10AU (PA only)
TOTAL					135 AU

**Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).*

List of courses that contribute towards BSocSci (Economics)				AU Load	
Discipline Requirement	Core	HE1001	Microeconomics I	3	32AU
		HE1002	Macroeconomics I	3	
		HE2001	Microeconomics II	3	
		HE2002	Macroeconomics II	3	
		HE2003	Econometrics I	3	
		HE3001	Microeconomics III	3	
		HE3002	Macroeconomics III	3	
		HE3003	Econometrics II	3	
		MA4079	Final Year Project	8	
		MPE	MH1820	Introduction to Probability and Statistical Methods	
HE3XXX	Econs PE1		3		
HE3XXX	Econs PE2		3		
HE3XXX	Econs PE3		3		
HE3XXX	Econs PE4		3		
HE3XXX	Econs PE5		3		
HE3XXX	Econs PE6		3		
HE4XXX	Econs PE7		4		
HE4XXX	Econs PE8		4		
HE4XXX	Econs PE9		4		
BDE	MH1810	Mathematics 1	3	9AU from Year 1 Engineering graded Core courses that yield the highest CGPA.	
	PH1011	Physics*	3		
	EG1001	Engineers in Society	3		
	MH1811	Mathematics II	3		
	MA1001	Dynamics	3		
	MA1008	Introduction to Computational Thinking	3		
	MA1700	Aerospace Discovery Course	1		

	BDE	MA2001 MA2003 MA2005 MA2006 MA2072 MA2701 MA3700 MA3701 MA2007 MA2700 MA2079 MA3006 MA3705 MA3003 MA3072 MA3702 MA3703 MA3704	Mechanics of Materials Introduction to Thermo-fluids Engineering Graphics Engineering Mathematics Laboratory Experiments (AE) Flight Performance Aircraft Structures I Aerodynamics Thermodynamics Aerospace Materials & Manufacturing Process Engineering Innovation and Design Fluid Mechanics Aerospace Control Theory Heat Transfer Engineering Experiments (AE) Aircraft Propulsion Flight Dynamics Aircraft Electrical Devices	3 3 3 3 1 2 3 3 3 3 2 3 3 3 1 3 2 3	21AU from Year 2 and 3 Engineering graded courses that yield the highest CGPA + 5AU (PA only)
Interdisciplinary Collaborative Core	Common Core	CC0001 CC0002 CC0003 CC0005 CC0006 CC0007 ML0004	Inquiry and Communication in the Interdisciplinary World Navigating the Digital World Ethics & Civics in a Multi-Cultural World Healthy Living & Wellbeing Sustainability: Society, Economy & Environment Science & Technology for Humanity Career and Entrepreneurial Development for the Future World	2 2 2 3 3 3 2	17AU
	Foundational Core	HW0288 MA0218 MA3080/ MA3075	Engineering Communication Introduction to Data Science and Artificial Intelligence Professional Internship/ Professional Attachment	2 3 10/ 5	15AU or 10AU (PA only)
TOTAL					127AU

**Students without 'A' Level Physics will take 'PH1012 Physics A' (4AU).*